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MC NL PT SE

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(30) Priority: 21.09.1999 US 155041

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(72) Inventors:

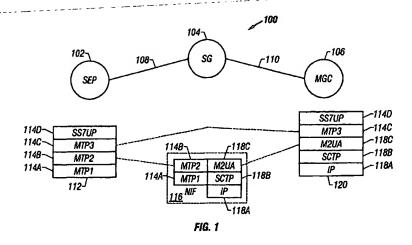
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(54) System and method for transporting IN/AIN signaling over an internet protocol (IP) network

(57) A system and method for transporting IN/AIN signaling (e.g., SS7 signaling) over an IP-based network using Stream Control Transmission Protocol (SCTP), wherein a peer-to-peer protocol adaptation (PPA) structure is provided at a signaling node. The PPA structure includes an interworking functionality between an MTP3 layer and the SCTP messaging, and operates to provide a symmetrical MTP2 adaptation interface therebetween. The PPA interface functionality facilitates the implementation of network management capabilities in-

cluded in the MTP3 layer such that the advantageous features of SS7 signaling are retained in the SCTP transport. The MTP2 adaptation interface functionality is processed locally with respect to the signaling node, rather than backhauling the associated signaling to an external node via an IP connection. The PPA structure may be provided at any signaling node operable to establish a virtual link across an IP connection such as, for example, a signaling gateway, an IP-compliant SCP or STP, et cetera.





EUROPEAN SEARCH REPORT

Application Number EP 00 11 9962

Cala	Citation of document with indicat	ion, where appropriate.	Relevant	CLASSIFICATION OF THE	
Category	of relevant passages		to claim	APPLICATION (Int.CI.7)	
A	AUERBACH D BERG D: "S PROTOCOL"	IGNALING BACKHAUL	1-52	H04Q3/00	
	25 February 1999 (199 XP002238943 Retrieved from the Int <url:http: www.ietf.o<br="">/I-D/draft-ietf-sigtra -00.txt> [retrieved on * the whole document *</url:http:>	ernet: rg/proceedings/99nov n-signaling-backhaul 2003-04-22]			
A	ONG L RYTNA I: "Archi for Signaling Transpor		1-52		
	February 1999 (1999-02), XP002238917 Retrieved from the Internet: <url:http: 99mar="" draft-ietf-sigtran-framework-arch-00.txt="" i-d="" proceedings="" www.ietf.org=""> [retrieved on 2003-04-17] * page 8 - page 12 *</url:http:>				
				TECHNICAL FIELDS SEARCHED (Int.Cl.7)	
				H04Q	
	The present search report has been of	drawn up for all claims			
	Place of search	Date of completion of the search		Examiner	
	THE HAGUE	23 April 2003	Chi	met, D	
X : part Y : part docu A : tech			ment, but publis the application other reasons		
A: technological background O: non-written disclosure P: intermediate document		***************************************	& : member of the same patent family, corresponding		

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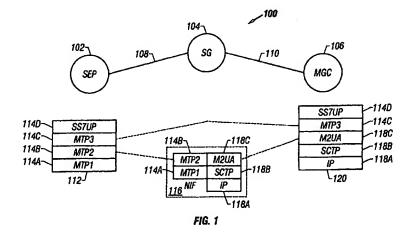
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A	AUERBACH D BERG D: PROTOCOL"	"SIGNALING BACKHAUL	1-52	H04Q3/00	
	/I-D/draft-ietf-sig -00.txt> [retrieved * the whole documer	Internet: cf.org/proceedings/99nov gtran-signaling-backhaul on 2003-04-22] ht *			
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	hade a hade at	•		TECHNICAL FIELDS SEARCHED (Int.CI.7)	
				H040	
J	The present search report has	been drawn up for all claims			
Place of search . Date of completion of the search			<u> </u>	Examiner	
THE HAGUE		23 April 2003	Chimet, D		
CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document		E : earlier patent doo after the filing date her D : document cited in L : document cited fo	T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document ofted for other reasons 8: member of the same patent family, corresponding document		

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